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L7 17316 SEA FILE=HCAPLUS ABB=ON PLU=ON POLYELECTROLYTES+NT, RTCS/CT
L22 9673 SEA FILE=HCAPLUS ABB=ON PLU=ON BIOSENSORS+NT/CT
L27 3434 SEA FILE=HCAPLUS ABB=ON PLU=ON "BIOCHEMICAL MOLECULES"+OLD/CT

L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 AND L22 AND L7

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L28 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:12728 HCAPLUS

DOCUMENT NUMBER: 134:68419

TITLE: Incorporation and applications of biomolecular interactions within a carrier

INVENTOR(S): Hogue, Christopher V. W.; Brennan, John D.

PATENT ASSIGNEE(S): McMaster University, Can.

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001139	A2	20010104	WO 2000-CA779	20000623
WO 2001001139	A3	20010503		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1188057 A2 20020320 EP 2000-941851 20000623

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

US 1999-140713P P 19990624

US 2000-207204P P 20000526

WO 2000-CA779 W 20000623

AB Described is a carrier having a biomol. interaction incorporated therein. The carrier is described as comprising a silica based glass and in an embodiment is a sol-gel derived glass. Also described are methods of incorporating biomol. interaction within a carrier of the invention. Various types of biomol. interaction are discussed as well as applications of carriers contg. one or more biomol. interactions. Brain and spinach calmodulins were reacted with melittin and the complex was entrapped by hydrolysis and condensation of tetraethylorthosilicate. The reversible disruption by guanidinium hydrochloride or trifluoperazine was studied using the fluorescence of the tryptophan of melittin.

IC ICM G01N033-543

ICS A61K009-14; A61K009-16; A61K009-20

CC 9-1 (Biochemical Methods)

Considered.
10/29/02
MEC

Section cross-reference(s): 1, 2, 6

IT **Polyelectrolytes**
(as additives; incorporation and applications of biomol. interactions within a carrier)

IT **Biosensors**
(fiber-optic; incorporation and applications of biomol. interactions within a carrier)

IT Affinity chromatography
Animal
Antitumor agents
Bioassay
Biochemical molecules
Body fluid
CCD cameras
Carriers
Coating process
Denaturants
Drug delivery systems
Drug screening
Fluorometry
Ink-jet printing
Laser radiation
Mass spectrometry
Microtiter plates
Molds (forms)
Molecular association
Screen printing
Sol-gel processing
(incorporation and applications of biomol. interactions within a carrier)

L28 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:176094 HCAPLUS

DOCUMENT NUMBER: 128:190151

TITLE: Self-assembled metal colloid monolayers

INVENTOR(S): Natan, Michael J.; Baker, Bonnie E.

PATENT ASSIGNEE(S): Penn State Research Foundation, USA; Natan, Michael J.; Baker, Bonnie E.

SOURCE: PCT Int. Appl., 141 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

see above

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9810289	A1	19980312	WO 1997-US15581	19970904
W: CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US <u>6242264</u>	B1	20010605	US 2000-254142	20000112
PRIORITY APPLN. INFO.:				
			US 1996-25064P	P 19960904
			US 1996-769970	A 19961219
			WO 1997-US15581	W 19970904

AB A biosensor based on complexes between biomol. receptors and colloidal Au nanoparticles, and more specifically, colloid layers of receptor/Au complexes that can be used to detect biomol. analytes through measuring of

binding-induced changes in elec. resistance or surface plasmon resonance. Also disclosed is a method for detecting and analyzing carrier-borne chem. compds. with Raman spectroscopy using an improved SERS substrate. Further disclosed is an improved method for detecting compds. in solvents using capillary electrophoresis in conjunction with Raman spectroscopy.

IC ICM G01N033-553

CC 9-1 (Biochemical Methods)

Section cross-reference(s): 59, 79, 80

IT Air

Biochemical molecules

Biosensors

Capillary electrophoresis

Colloids

Electric resistance

Monolayers

Nanoparticles

Pesticides

Raman spectroscopy

SERS (Raman scattering)

Self-assembly

Solvents

Surface plasmon

(self-assembled metal colloid monolayers)

IT 58-85-5, Biotin 1332-29-2, Tin oxide 1344-28-1, Alumina, uses

7440-22-4, Silver, uses 7440-57-5, Gold, uses 9013-20-1, Streptavidin

14808-60-7, Quartz, uses 71550-12-4,

Poly(allylamine)hydrochloride

RL: DEV (Device component use); USES (Uses)

(self-assembled metal colloid monolayers)